

Chapter 6: Solving Systems

Solving by Substitution 6.2 Day #3 WS

Period: _____ Date: _____

Solve the following systems by substitution.

- ✓ Remember that it is easiest to solve for variables without a coefficient (i.e. 1 or -1).
- ✓ Substitute (replace) into the other equation, so that only one variable is left.
- ✓ Do not forget to find both values and put your answer in the form of an ordered pair (x, y) .

1.
$$\begin{array}{l} 3x + 2y = 6 \\ x + 3y = 9 \end{array}$$

2.
$$\begin{array}{l} -2x + y = -9 \\ x - 3y = 2 \end{array}$$

3.
$$\begin{array}{l} y = x + 3 \\ y = 2x \end{array}$$

4.
$$\begin{array}{l} 3y = 6x - 5 \\ y = 2x - 1 \end{array}$$

5. $y - x = 5$
 $3y = 3x + 15$

6. $-7x - 2y = -13$
 $x - 2y = 11$

7. $y = x + 3$
 $y = x - 1$

8. $y = 2x - 2$
 $2y - 4x = -4$
